

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the reconstruction of the existing traffic control signal at the intersection of US 50 (Ocean Gateway) and Ocean Landing Shopping Center East Entrance in Worcester County, Maryland. US 50 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA two (2) phase, semi-traffic-actuated mode. There will be an exclusive left turn phase for the westbound movement of US 50 with a concurrent northbound to eastbound movement. The US 50 eastbound through movement will operate alone.

The existing controller and loop detector amplifier will be relocate into a new base mounted cabinet. The new cabinet will have video detection.

CONTACT LIST

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MR. GREG HOLSEY, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
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PHONE: (410) 677-4082
MR. EDWARD RODENHIZER, SIGNAL OPERATIONS
PHONE: (410) 787-7652

THE POWER COMPANY REPRESENTATIVE IS:
CONNECTIV
JOHN SHELTON
410-850-6361
PO BOX 1739
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EQUIPMENT LIST

A. Equipment to be supplied by the State Highway Administration.

None.

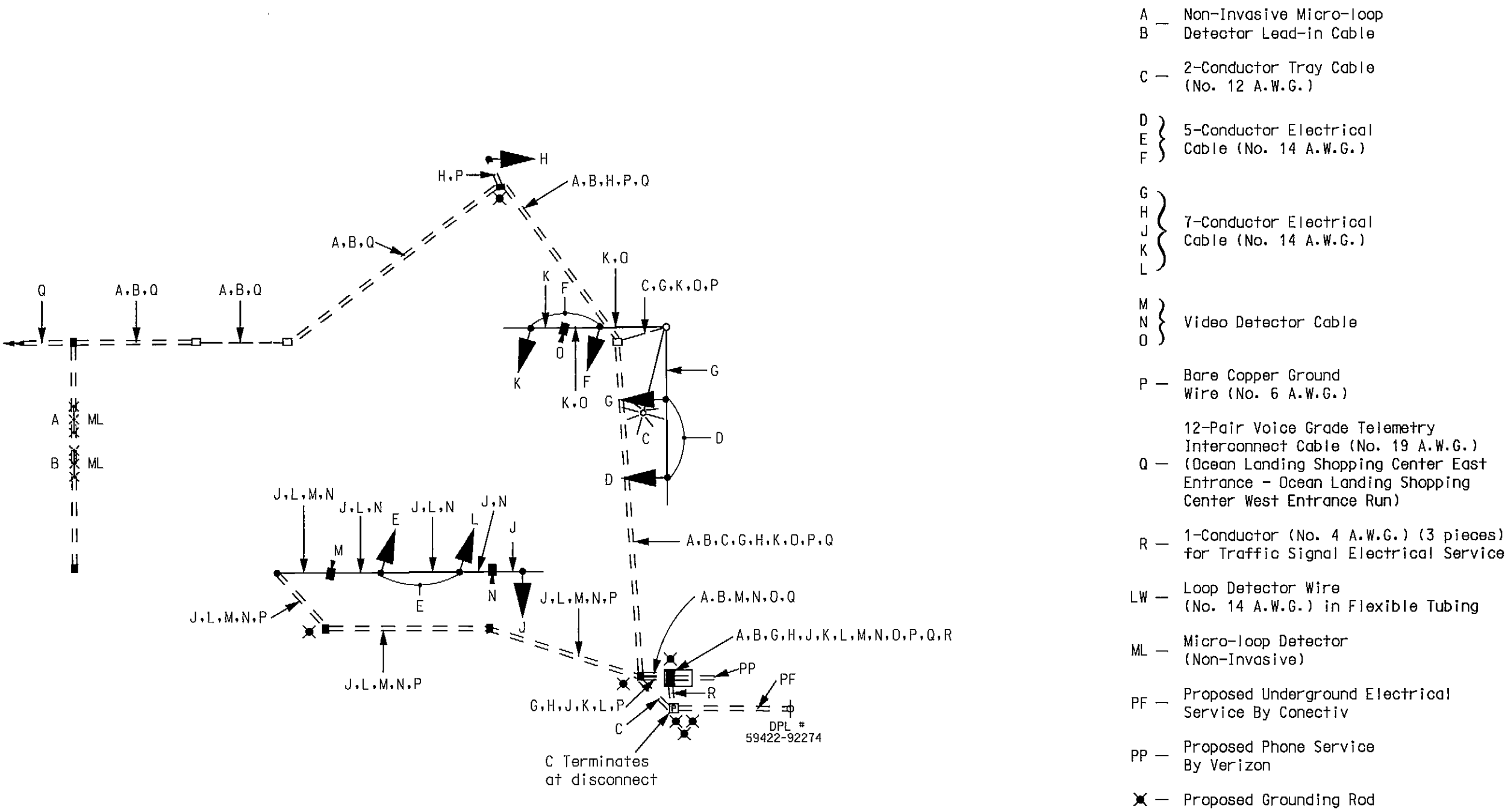
B. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Description
1	EA	27 ft. steel mast arm pole with a 60 ft. mast arm.
1	EA	14 ft. steel pedestal pole with break away transformer base.
1	EA	Standard S.H.A. traffic signal controller, base mounted NEMA 6 cabinet, video detection interface, telemetry interface equipment. (Note: Controller and cabinet shall be purchased from econolite and delivered to the S.H.A. Signal Shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650).
8	EA	12 in., one-way, three section L.E.D. (R, Y, G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
3	EA	Terra Video Detection Camera
700	LF	Terra Video Detection Cable (No. 18 A.W.G.).
2	EA	30 in. x 36 R 3-5(R) sign with mast arm mounting hardware.
1	EA	48 in. x 72 in. Shield Assembly sign with pole mounting hardware.
Lump Sum	LS	Mobilization.
Lump Sum	LS	Maintenance of traffic.
4	CY	Test pit excavation.
6	EA	Handhole.
2	EA	Non-Invasive probe (set of 3) with 1000 ft. lead-in cable.
45	LF	1-conductor electrical cable (No. 4 A.W.G.).
90	LF	5-conductor electrical cable (No. 14 A.W.G.).
900	LF	7-conductor electrical cable (No. 14 A.W.G.).
260	LF	Bare copper stranded ground wire (No. 6 A.W.G.).
30	LF	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
330	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
55	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
80	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - trench.
290	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
7.2	CY	Concrete foundation for traffic signal equipment.
7	EA	Ground rod - 3/4 in. diameter x 10 ft. length.
1	EA	Electrical utility service equipment (120/240 V, one phase, three wire system) for an underground electrical power service as per MD-SHA Typical No. 807.05-01 (100 amp. electrical pedestal).
90	LF	24 in. wide HAPPTPM - white for stop line.
1	EA	Cap mast arm pole.
25	LF	Remove existing pavement marking by grinding.
Lump Sum	LS	Remove and salvage existing traffic signal equipment.

Phase Chart

	1	2	3	4	5	6	7	8	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
Phase 1	R	R	←G—	G	G	G	G	G	↻
1 Change	R	R	←Y—	Y	Y	Y	Y	Y	↻
Phase 2	G	G	←R—	R	R	R	R	R	↻
2 Change	Y	Y	←R—	R	R	R	R	R	↻
Flashing Operation	FL/Y	FL/Y	←FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	↻

Wiring Diagram



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 50 (OCEAN GATEWAY) AT
OCEAN LANDING EAST ENTRANCE
BERLIN, MARYLAND

GENERAL INFORMATION PLAN

SCALE NA DATE AUGUST 9, 2010 CONTRACT NO. BW996M82

DESIGNED BY F. BROWNLEY COUNTY WORCESTER
DRAWN BY F. BROWNLEY LOGMILE 23005010.07
CHECKED BY TMS NO. G-190
F.A.P. NO. TOD NO.

TS NO. 3866B-GI DRAWING GI-03 OF 03 SHEET NO. 6 OF 6

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